

## Message Text

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15

ORIGIN DOTE-00

INFO OCT-01 NEA-10 ISO-00 EB-07 AID-05 /023 R

DRAFTED BY DOT/FHWA:LAHERR:GLG

APPROVED BY NEA/ARP:FMDICKMAN

NEA/ARP - G. Q. LUMSDEN, JR.

DOT/FHWA - W. B. MCKENDRICK

----- 006427

R 212152Z MAY 75

FM SECSTATE WASHDC

TO AMEMBASSY KUWAIT

UNCLAS STATE 118966

E.O. 11652: N/A

TAGS: ELTN, EAID, KU

SUBJECT: KUWAIT MOTORWAY BRIDGES

REF: KUWAIT 2008

KUWAIT PASS BREWER, FHWA FROM MCKENDRICK

1. CURRENT PLANNING APPARENTLY IS FOR USE OF CAST-IN-PLACE PRESTRESSED CONCRETE BOX GIRDER SPANS INSTEAD OF STEEL BOX GIRDER SPANS, PREVIOUSLY REVIEWED. WE PRESUME THAT OUR PREVIOUS COMMENTS RELATIVE TO CONCRETE CONSTRUCTION EXPERTISE HAVE BEEN SATISFIED.
2. ALTHOUGH WE HAVE NO OBJECTION TO PRECAST SEGMENTAL CANTILEVER CONSTRUCTION AS SUCH, WE DOUBT THAT IN THIS SPAN RANGE IT WOULD BE MORE ECONOMICAL, ESPECIALLY AS OVERCROSSING STRUCTURES WHERE FALSEWORK IS OF NO PARTICULAR DIFFICULTY. IT IS UNLIKELY THAT PIER DESIGN AND BEARING AREA REQUIREMENTS FOR CAST-IN-PLACE BOX GIRDER DESIGNS WOULD BE ADEQUATE FOR SEGMENTAL CANTILEVER CONSTRUCTION.
3. WITHIN DESIGN LIMITS WHICH HAVE BEEN ESTABLISHED FOR UNCLASSIFIED

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CAST-IN-PLACE CONCEPT, SUCH AS BOX CROSS-SECTION, PIER SIZE, BEARING AREAS AND TYPE, ETC., WE WOULD HAVE NO

OBJECTION TO PERMITTING OPTION FOR CONSTRUCTION BY THE

SEGMENTAL CANTILEVER CONCEPT AS ALTERNATE CONSTRUCTION PROCEDURE. IN THIS CASE, SPECIAL PROVISIONS SHOULD REQUIRE CONTRACTOR TO PROVIDE DETAILS OF PRESTRESSING SYSTEM HE PROPOSES TO USE, ERECTION SEQUENCE AND STRESSES RESULTING FOR VARIOUS STAGES OF THIS ERECTION, FALSEWORK AND FORMWORK DETAILS, CONCRETE STRENGTHS AND TIME OF ATTAINMENT, AND MANNER AND EXTENT OF STAGE PRESTRESSING.

4. FREYSSINET SYSTEM IS IN COMMON USE IN U.S. AND OFTEN CHOICE OF PRESTRESSING SYSTEM IS LEFT TO CONTRACTOR BIDDING PROJECT. IT IS COMMON PRACTICE IN SOME STATES TO SPECIFY ONLY REQUIRED FINAL PRESTRESS FORCE, AND ECCENTRICITY TO BE PROVIDED AND TYPE OF PRESTRESS AND STRAND ARRANGEMENT MUST BE DEVELOPED BY SUCCESSFUL BIDDERS WITHIN THESE LIMITS. THIS PRACTICE CAN BE APPLIED TO EITHER CAST-IN-PLACE OR SEGMENTALLY CANTILEVERED CONSTRUCTION. FREYSSINET IS COMPARABLE IN COST WHEN OTHER SYSTEMS ARE IN COMPETITION. INGERSOLL

UNCLASSIFIED

<< END OF DOCUMENT >>

## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 26 AUG 1999  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** CONSTRUCTION, HIGHWAYS  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 21 MAY 1975  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** n/a  
**Disposition Approved on Date:**  
**Disposition Authority:** n/a  
**Disposition Case Number:** n/a  
**Disposition Comment:**  
**Disposition Date:** 01 JAN 1960  
**Disposition Event:**  
**Disposition History:** n/a  
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**Office:** ORIGIN DOT  
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**Original Handling Restrictions:** n/a  
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**Reference:** n/a  
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**Review Authority:** SmithRJ  
**Review Comment:** n/a  
**Review Content Flags:** ANOMALY  
**Review Date:** 30 JUL 2003  
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**Review Transfer Date:**  
**Review Withdrawn Fields:** n/a  
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**TAGS:** EAID, ELTN, KU  
**To:** KUWAIT  
**Type:** TE  
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